

3. Bianca

Program Name: Bianca.java

Input File: bianca.dat

Your friend Bianca has Geometry homework due next period, and she forgot all about it! Quickly write a program to solve Pythagoras theorem before the homework is due.

Use the following theorem (you are given a and b, so solve for c):

$$A^2 + B^2 = C^2$$

Input: The first line will contain a single integer n ($0 < n < 100$) that indicates the number of data sets that follow. Each data set will consist of two integers A and B ($0 < A, B < 1000$), separated by a space, denoting the values A and B in the equation above.

Output: Output the value of C ($0 < C < 1000000$) given the A and B values from the input, rounded to 2 decimal places, as shown below.

Sample input:

```
4
3 4
12 14
5 12
5 8
```

Sample output:

```
5.00
18.44
13.00
9.43
```